

Var. OCCIDENTALIS Greene. Leaves fewer, 15–48 (av. 36), bright green and glabrous (or if whitened soon glabrate) above, those immediately below the inflorescence 5–12 (av. 7.8) cm. long, 5–20 (av. 10) mm. wide.—Gravelly or sandy soils and along streams, Newfoundland to Alaska, south to Washington County, Maine, Great Gulf, White Mts., New Hampshire, Minnesota, South Dakota, Colorado, and California; also in Asia and introduced in Europe. Ascending in the Shickshock Mts., Gaspé Co., Quebec, along mountain brooks to 625 m. and known in New Hampshire only from banks of a stream in the Great Gulf, altitude 1070 m. (*A. S. Pease*).

REPORTS ON THE FLORA OF THE BOSTON DISTRICT,—VIII.

THIS report on *Cyperaceae* has been based on carefully determined specimens. These are in the Gray Herbarium, and the herbaria of the New England Botanical Club, Wellesley College, the Boston Society of Natural History, the Peabody Museum at Salem, and the private herbaria of Messrs. J. R. Churchill, Walter Deane, C. A. & A. W. Cheever, C. H. Knowlton, A. S. Pease, W. P. Rich, R. A. Ware and E. F. Williams.

There proved to be extant so many specimens over fifty years old, that it has seemed best to limit such citations, as they are matters of merely secondary interest. Henceforth only such aged specimens as are of special note will be quoted.

The reports received, in connection with the Essex, Middlesex and Metropolitan Park Floras, have given adequate data for the common species, but there are still very large areas on the west and south which are little known. We urge all who have herbaria to join us in this work, or to report additions at any time.

CYPERACEAE.

CYPERUS.

C. aristatus Rottb. Sandy strands of fresh-water ponds. Mystic Pond (*Wm. Boott*, Oct. 1, 1876; *C. E. Perkins*, Aug. 2, 1882; *W. P. Rich*, Sept. 29, 1891); Cambridge (*B. D. Greene*, no date); Concord (*H. Little*, no date); Heard's Pond, Wayland (*E. Hunt*, July, 1873;

A. J. Eames & C. H. Knowlton, Sept. 6, 1909; *M. L. Fernald*, Sept. 10, 1909; *K. M. Wiegand*, Sept. 21, 1909); Lake Cochituate, Natick (*K. M. Wiegand*, Oct. 1, 1909. See RHODORA, xii, 39, 1910).

C. dentatus Torr. Wet shores and marshes, abundant throughout.

C. dentatus Torr., var. **ctenostachys** Fernald. Plum Island, Essex Co., with type and intermediates (*J. Robinson*, Aug. 26, 1878); "along the gravelly pond shores below spring level, not rare," Houghton's Pond, Milton (*A. W. Cheever*, Aug. 18, 1905).

C. diandrus Torr. Low ground, in sand, gravel or mud. Not reported from the three southern tiers of towns; abundant in the rest of the district. Collected in Sudbury meadows by Francis Boott in 1819, and at Danvers by B. D. Greene in 1846.

C. Engelmanni Steud. Borders of ponds. Fresh Pond, Cambridge (*Wm. Boott*, Aug. 20, 1853. Since then collected by various others down to 1908); Spy Pond, Arlington (*H. A. Young*, Sept. 21, 1879; *C. E. Perkins*, September, 1881); Little Pond, Belmont (*H. A. Young*, Sept. 21, 1879); Framingham (*T. Morong*, September, 1886; *A. J. Eames & C. H. Knowlton*, Sept. 6, 1909; abundant, Farm Pond, *K. M. Wiegand*, October 9, 1909).

C. erythrorhizos Muhl. Wet sandy and muddy shores. Newburyport (*A. A. Eaton*, Oct. 3, 1896); Lawrence (*J. Robinson*, Sept. 26, 1877. Various other collectors down to 1901); Winter Pond, Winchester (*H. H. Bartlett, J. R. Churchill & C. H. Knowlton*, Sept. 15, 1906).

C. esculentus L. Moist soil and cultivated ground. Amesbury, West Newbury, Lawrence, South Boston, Concord, Wayland, Framingham; Danvers (according to Robinson, Fl. Essex Co. 115, 1880); Lowell, Tewksbury and Dracut (according to Dame & Collins, Fl. Middlesex Co. 111, 1888).

C. ferax Richard. Low ground and marshes, near fresh or brackish water. Scattered stations in eastern portion of district; known in the Fenway, Boston, from September, 1878, to the present.

C. filiculmis Vahl. Dry sterile soil; Malden, Woburn, Winchester, Cambridge, Charlestown, Boston, Quincy, Hull, Sharon, Norfolk, Wellesley.

C. filiculmis Vahl., var. **macilentus** Fernald. Very common throughout.

C. FUSCUS L. "Near Revere beach, 1877 (*Herbert A. Young*)" according to Robinson, Fl. Essex Co. 116, 1880). It was also col-

lected in the same locality, on the edge of a spring in a railway ditch by C. E. Faxon, Sept. 26, 1878 (specimen in Gray Herb.), by H. A. Young, September, 1879 (specimens in Gray Herb. and herb. Essex Co.), and by W. P. Rich, Sept. 21, 1890 (specimen in herb. W. P. Rich). This station is now undoubtedly extinct.

C. Grayii Torr. Sand dunes, Plum Island, Essex Co. (*W. P. Conant*, Sept. 26, 1878, and others since). Never reported at any other station north of Plymouth, which is 55 miles away.

C. Nuttallii Eddy. Along the entire coast, chiefly in brackish marshes. Found also at Winter Pond, Winchester. Collected by John A. Lowell in Roxbury, Sept. 17, 1846.

C. ovularis (Michx.) Torr. "West Boston Flats" (*C. W. Swan*, Sept. 25, 1880. Specimen in herb. N. E. Bot. Club). Introduced, but undoubtedly long since extinct.

C. rivularis Kunth. Moist soil; undoubtedly common, but reported from only nine eastern and northern towns.

C. strigosus L. Wet sunny places, very common throughout.

C. strigosus L., var. **capitatus** Boeckl. West shore of Spot Pond, Stoneham (*W. P. Rich*, Sept. 20, 1894); sandy shore, Winter Pond, Winchester (*H. H. Bartlett*, Aug. 26, 1905; *G. G. Kennedy*, Aug. 10, 1893, and Oct. 20, 1901); West Cambridge (*Wm. Boott*, Nov. 5, 1865); pond border, South Framingham (*T. Morong*, September, 1886).

C. strigosus L., var. **compositus** Britton. Probably introduced in wool and cotton waste near Goulding's Mills, Malden (*F. S. Collins*, Sept. 25, 1887); Green Lodge, Canton (*G. G. Kennedy*, Aug. 8, 1887); Monponsett Pond, Halifax (*Wm. Boott*, Sept. 23, 1870).

C. strigosus L., var. **robustior** Kunth. Moist soil, Winter Pond, Winchester (*C. H. Knowlton*, Sept. 15, 1906).

DULICHIMUM.

D. arundinaceum (L.) Britton. Wet places, usually in standing water. Not reported from extreme western and southern portions; abundant elsewhere, and probably throughout.

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